

CORNELL UNIVERSITY OFFICIAL PUBLICATION

Volume XXII

Number A

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Announcement of the Courses in
Economics,
Agricultural Economics,
Economics of the Household,
Sociology,
and
Rural Social Organization
for 1930-31

Ithaca, New York
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FACULTY

LIVINGSTON FARRAND, A.B., M.D., L.H.D., LL.D., President of the University.
ROLLINS ADAMS EMERSON, D.Sc., LL.D., Dean of the Graduate School.

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WILLIAM IRVING MYERS, Ph.D., Professor of Farm Finance.
FRANK ASHMORE PEARSON, Ph.D., Professor of Prices and Statistics.
LELAND SPENCER, Ph.D., Professor of Marketing.
WHITON POWELL, Ph.D., Professor of Business Management.
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COLLEGE OF HOME ECONOMICS

DEPARTMENT OF HOUSEHOLD MANAGEMENT

HELEN CANON, Ph.D., Professor of Home Economics.
DAY MONROE, Ph.D., Professor of Home Economics.

THE UNIVERSITY CALENDAR FOR 1930-31

1930		FIRST TERM	
Sept. 15	<i>Monday</i>	University entrance examinations begin.	
Sept. 22	<i>Monday</i>	Academic year begins. Registration of new students.	
Sept. 23	<i>Tuesday</i>		
	9-12 A.M.	Registration of new students.	
	1- 5 P.M.	Registration of old students.	
Sept. 24	<i>Wednesday</i>	Registration of old students.	
Sept. 25	<i>Thurs.</i> 8 A.M.	Instruction begins.	
Oct. 17	<i>Friday</i>	Last day for payment of tuition.	
Nov. 5	<i>Wednesday</i>	Registration of winter-course students.	
Nov. 27-29		Thanksgiving recess.	
Dec. 20	<i>Sat.</i> 12:50 P.M.	Instruction ends in regular and winter courses.	} Christmas recess
1931			
Jan. 5	<i>Mon.</i> 8 A.M.	Instruction resumed in regular and winter courses.	
Jan. 11	<i>Sunday</i>	Birthday of Ezra Cornell. Founder's Day.	
Jan. 26	<i>Monday</i>	Term examinations begin.	
SECOND TERM			
Feb. 6	<i>Friday</i>	} Registration of all students.	
Feb. 7	<i>Saturday</i>		
Feb. 9	<i>Mon.</i> 8 A.M.	Instruction begins in regular courses.	
Feb. 9-14		Farm and Home Week.	
Feb. 13	<i>Friday</i>	Instruction ends in winter courses.	
Mar. 2	<i>Monday</i>	Last day for payment of second-term tuition.	
Mar. 28	<i>Sat.</i> 12:50 P.M.	Instruction ends.	} Spring
Apr. 6	<i>Monday</i> 8 A.M.	Instruction resumed.	} Recess
June 1	<i>Monday</i>	Term examinations begin.	
June 15	<i>Monday</i>	Sixty-third Annual Commencement.	

CALENDAR OF THE GRADUATE SCHOOL FOR 1930-31

1930

FIRST TERM

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|-------|----|--|-------------------------------|
| Sept. | 22 | } | Registration of new students. |
| Sept. | 23 | | |
| Sept. | 24 | Registration of old students. | |
| Sept. | 25 | Instruction begins. | |
| Dec. | 15 | Last day for announcing titles of theses by candidates for advanced degrees in June. | |

1931

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|------|---|--|
| Feb. | 5 | Last day for completing requirements for advanced degrees to be conferred in February. |
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SECOND TERM

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|-------|----|--|-----------------------------------|
| Feb. | 6 | } | Registration for the second term. |
| Feb. | 7 | | |
| Feb. | 9 | Instruction begins. | |
| March | 15 | Last day for filing applications for fellowships and graduate scholarships. | |
| June | 10 | Last day for completing requirements for advanced degrees to be conferred at Commencement. | |
| June | 15 | Commencement. | |

INTRODUCTION

This announcement presents the opportunities for study and research in Economics and Sociology, and related subjects at Cornell University. Courses in these subjects are offered in the Department of Economics of the College of Arts and Sciences, the departments of Agricultural Economics and Farm Management and Rural Social Organization in the New York State College of Agriculture, and in the Department of Household Management of the New York State College of Home Economics. Graduate studies are directed by the professors of the same departments under the Graduate School of the University.

Inasmuch as the work in Economics and Sociology is divided among the several departments and colleges above mentioned, it has seemed desirable to bring to the attention of prospective students a joint announcement setting forth the work offered in the University and to indicate some of the outstanding facilities and opportunities for graduate study and research in these subjects.

TUITION FEES IN THE COLLEGES FOR UNDERGRADUATES

College of Arts and Sciences. Tuition in the College of Arts and Science is \$400 for the academic year.

New York State Colleges of Agriculture and Home Economics. Tuition is free to undergraduate students in the New York State Colleges of Agriculture and Home Economics (except the course in Hotel Administration), who, at the beginning of the college year, are and for at least twelve months prior thereto have been *bona fide* residents of the State of New York. Those who are not so exempt pay \$200 tuition for the academic year.

Any tuition or other fee may be changed by the Board of Trustees to take effect at any time without previous notice.

For other details regarding required fees and scholarships see the General Information Number published by the Secretary of the University.

THE GRADUATE SCHOOL

ADMISSION

Graduates of the colleges at Cornell University and also graduates of other institutions in which the requirements for the first degree are substantially equivalent, are eligible for admission to the Graduate School.

In order to be admitted to the Graduate School at Cornell University, a student must furnish evidence that he has already received a first degree, by submitting a diploma or a statement from some other official source.

TUITION AND OTHER FEES

A Tuition Fee of \$75 for the academic year is to be paid by all students registered in the Graduate School. It is payable in installments of \$37.50 at the beginning of each term.

Certain classes of students are exempt from the payment of the tuition fee. They are:

(1) Graduate students holding certain appointments as University Fellows or Graduate Scholars, and holders of certain temporary fellowships and scholarships.

(2) Resident Doctors, *i.e.*, students in the Graduate School who have the Doctor's degree and are not candidates for a degree.

(3) Graduate students holding appointments as assistants and instructors and having their major studies in the college or line of work in which they are instructing, are exempt from the payment of tuition fees and laboratory and shop fees in the department in which they are employed to give instruction during the regular first and second terms only; members of the instructing staff who take work for which they must pay tuition are required to pay in proportion to the amount of work for which they are registered.

No student may receive the Master's degree who has not paid the tuition fee for at least one year, and no one may receive the Doctor's degree who has not paid the tuition fee for at least three years, unless one or more of the years spent in study for the Doctor's degree have been spent in graduate study at another university, or unless payment of tuition has been waived under one of the foregoing heads.

Any student of the Graduate School who has completed the requirement of residence for the degree for which he is a candidate, whose studies have been satisfactory to the Faculty, and who during that time has satisfied the requirements as to tuition fees, is, on paying the annual administration fee, exempt from the further payment of tuition fees for a period not to exceed one year.

There are certain other fees, including the administration fee, (\$25), matriculation fee (\$10), infirmary fee (\$5), graduation fee (\$20), Willard Straight Hall membership fee (\$5), and laboratory fees. Details concerning these are published in the Announcement of the Graduate School.

Any tuition or other fee may be changed by the Board of Trustees to take effect at any time without previous notice.

CREDIT FOR WORK DONE ELSEWHERE

For the Master's degree, no credit may be obtained for work done elsewhere. For the Doctor's degree, however, residence credit for work done elsewhere may be granted. The conditions to be fulfilled for the transfer of credit are discussed in the Announcement of the Graduate School.

FELLOWSHIPS

Two fellowships in Political Economy carrying stipends of \$400 are annually awarded, and on alternate years a President White fellowship in Political and Social Science with a stipend of \$500. In addition to these fellowships a limited number of student assistantships are annually awarded to graduate students.

LIBRARIES

GENERAL

The main University Library contains over 800,000 volumes and is one of the leading libraries in America. It is rich in works on economics and statistics and contains many valuable sets of journals and government publications containing original source material. It is also unusually strong in the allied field of history.

The Library of the College of Agriculture contains about 100,000 volumes and is especially rich in sets of agricultural papers, the publications of the United States Department of Agriculture and the Agricultural Experiment Stations, and journals and government publications of foreign countries.

ECONOMICS

In the Department of Economics the Statistical Laboratory has duplicate series of the publications of the federal census and of various state censuses and departments of vital statistics. Professor Slichter maintains a rather unique collection of current periodicals and publications of various labor organizations, giving source material for the study of labor problems. The accounting laboratory is keeping up-to-date the financial statements of a selected group of industrial and railroad corporations. Files of the current issues of a number of financial services and banks, including all the reserve banks, are also available.

AGRICULTURAL ECONOMICS

The Department of Agricultural Economics and Farm Management has an unusually good collection of publications of interest to graduate students in Agricultural Economics and Farm Management. This includes over 10,000 bound volumes. The library contains most of the literature and results of research in Agricultural Economics, Farm Management, Marketing, Prices, Statistics, and other allied subjects, which have been published in this country. The leading economic, financial, and statistical journals of this and other countries are available in complete or fairly complete sets. It also contains a large collection of foreign publications in this field. Among the more important collections, the library has:

Daily Trade Bulletin, Chicago, 1857-1929
Daily Market Record, Minneapolis, 1888-1929

Daily Price Current, grain reporter, and grain market review, Kansas City, 1901 to 1929
 Daily Market Reporter, St. Louis, 1875-1929
 Producers' Price—Current, New York, 1875-1929
 Board of Trade of Chicago, Annual Reports, 1858-1929
 Sugar Trade Journal, New York, 1890-1929
 Evening corn trade list and later London grain seed and oil reporter, London, 1870-1929
 George Broomhall's Corn Trade News, Liverpool, 1890-1929
 Corn Circular, London, 1890-1929
 Daily Commercial Letters, Milwaukee, 1860-1929
 The Northwestern Miller, Minneapolis, 1881-1929
 Price Current, Cincinnati and Chicago, 1844-1929, issued under four names: Price Current; Price Current Grain Reporter; Grain World; Grain Dealer's Journal
 New Orleans Price Current, 1844-1861

SOCIOLOGY

In the field of Sociology the University library contains sets of leading sociological journals, American and foreign, and a very large collection of standard works in Sociology, Anthropology, Ethnology and related subjects. The library of the College of Agriculture is unexcelled in its collections of the literature of rural sociology and rural life, American and foreign, containing practically everything of any importance, both books and pamphlets, which has been published in this field.

ECONOMICS OF THE HOUSEHOLD

Practically all the books, bulletins, and periodicals, of interest to graduate students in the field of economics of the household are available in the library of the Colleges of Agriculture and Home Economics or in the University library.

STATISTICAL EQUIPMENT

The Departments of Agricultural Economics and Farm Management, Rural Social Organization, and Household Management, have a first-class mechanical equipment for statistical work with some 60 adding machines, a dozen calculating machines and the joint use of an 80-column Hollerith sorting and tabulating equipment.

COURSES OF INSTRUCTION

DEPARTMENT OF ECONOMICS

(College of Arts and Sciences)

Course 1 or its equivalent must be completed before any credit may be obtained toward the upperclass requirement.

To satisfy the upperclass requirement in Economics a student must complete (1) Course 1 or its equivalent; (2) a minimum of five hours in each of three groups other than the introductory group; (3) twenty hours in Economics, completed after attaining upperclass status.

A student who is excused from ten of the required twenty hours in an upperclass group must complete (1) course 1 or its equivalent; (2) a minimum of five hours in each of two groups, or three hours in each of three groups other than the introductory group; (3) ten hours in Economics completed after attaining upperclass status.

Certain courses in Agricultural Economics may be counted in partial fulfillment of the major requirement in Economics, but in no case may more than six of the required twenty hours be allowed for such courses; and, in each case, the specific approval of the adviser must be obtained before credit for such courses may be counted toward the upperclass requirement. Students must secure the approval of their adviser, and the permission of the Dean and of the instructor in charge of the course, before they may register for courses given outside the College.

The attention of students intending to elect Economics as their upperclass group is directed to the following courses in Government, History, and Philosophy. History of Political Thought; English History; American History; Economic History of the United States, History of Modern Europe, The Intellectual History of Modern Times; Problems of Philosophy, History of Philosophy, Social and Political Ethics.

INTRODUCTORY COURSES

***1. Modern Economic Society.** Repeated in second term. Credit five hours. Professor SLICHTER. Daily except S 8, 9, 10, 11, 12.

A survey of the existing economic order, its more salient and basic characteristics, and its operation.

In the first term, the enrollment will be limited. Students should register, if possible, on the first day of registration. Assignment to sections will be made on registration days at Goldwin Smith 260.

***2a. Modern Economic Society.** First term. Credit three hours. Professor SLICHTER. M W F 8, 9, 11; T Th S 8, 9, 11.

This course and course 2b cover the same subject matter as course 1.

Enrollment will be limited. Students should register, if possible, on the first day of registration. Assignment to sections will be made on registration days in Goldwin Smith 260.

***2b. Modern Economic Society.** Second term. Credit three hours. Pre-requisite course 2a. Professor SLICHTER. M W F 8, 9, 11; T Th S 8, 9, 11.

***3. Introduction to Economics.** For students in Engineering and Chemistry. Repeated in second term. Credit three hours. Professor SLICHTER. Hours to be announced.

An introduction to the more essential outlines of contemporary economic organization and to a number of economic problems about which a citizen in American society is required to formulate or express his opinions.

***5. Current Economic Problems.** Second term. Credit three hours. Pre-requisite, Economics 1 or its equivalent. Professor SLICHTER. M W F 9, 11; T Th S 8.

A continuation of Course 1 or 2, designed to afford students an opportunity to become acquainted in a general way with the more important economic problems of the day—tariff problems, reparations problems, railroad problems, trust problems, labor problems, problems of the farmer, conservation problems, and problems of taxation and public finance.

FINANCE

11. Money and Banking. Repeated in second term. Credit three hours. Prerequisite, Economics I or its equivalent. Professor REED. M W F 10. Goldwin Smith 142.

A study of the history and the theory of money and banking. Enrollment limited to seventy-five students.

12. Financial History of the United States. Second term. Credit three hours. Prerequisite, Economics 11. Assistant Professor O'LEARY. T Th S 10. Goldwin Smith 256.

A survey of developing financial institutions, problems, and legislation from 1700 to 1900. Monetary, banking, and public finance problems will be dealt with against the changing background of American economic organization.

13. Corporation and Investment Finance. First term. Credit three hours. Prerequisite, Economics 11 and 21a. Assistant Professor O'LEARY. M W F 9. Goldwin Smith 142.

A study of the financial problems of the business corporation from the points of view of the management and of the investor.

14. The Federal Reserve System. Second term. Credit three hours. Prerequisite, Economics 11. For seniors majoring in Economics, and graduate students. Professor REED. M W F 11. Goldwin Smith 264.

15. Trade Fluctuations. First term. Credit three hours. Prerequisite, Economics 11. For seniors majoring in Economics, and graduate students. Professor REED. M W F 11. Goldwin Smith 242.

A study of the causes and effects of trade recessions and revivals, with an introduction to the methods of general forecasting.

16. Money and Credit. Throughout the year. For graduate students only. Professor REED. Hours to be arranged.

A discussion of some of the more intricate phases of monetary and banking theory.

ACCOUNTING

21a. Accounting. Repeated in second term. Credit three hours. Prerequisite, Economics I or its equivalent. Professor ENGLISH. First term, M W F 8, Goldwin Smith 142; second term, T Th S 8, Goldwin Smith 142. One practice period a week, Goldwin Smith 329.

Theory of debit and credit; the journal and ledger; the development of books of original entry; analysis of income sheets and balance sheets.

21b. Accounting. Repeated in second term. Credit three hours. Prerequisite, Economics 21a. Professor ENGLISH. First term, T Th S 8, Goldwin Smith 256; second term, M W F 8, Goldwin Smith 256. One practice period a week. Goldwin Smith 329.

The issue and transfer of capital stock, bonds and their valuation, depreciation, reserves and reserve funds, sinking funds, analysis of income sheets and balance sheets.

[25. Cost Accounting. First term. Credit two hours. Prerequisite, Economics 21b. Professor ENGLISH. Th 2-4. Goldwin Smith 329.] Not given in 1930-31.

The purpose and methods of determining manufacturing costs.

26. Accounting Theory and Problems. Second term. Credit three hours. Prerequisite, Economics 21b, or its equivalent. Professor ENGLISH. M W F 9. Goldwin Smith 256.

A critical study of the fundamental principles underlying accounting procedure. The solution of typical problems in corporate consolidation, reorganization, and liquidation, and in other special fields.

The attention of students is called to the following related work: Introduction to the Mathematics of Finance, The Law of Contracts, Corporation Law, Partnership Law.

LABOR AND INDUSTRIAL RELATIONS

43. Trade Unionism in the United States. First term. Credit three hours. Prerequisite, Economics I or its equivalent. Professor SLICHTER. M W F 9. Goldwin Smith 256.

A study of the origins, development, philosophies, aims, and policies of American trade unionism with special reference to the factors which have determined the character of the American labor movement and with emphasis on current problems of unionism and on present trends in union policies. A special materials fee of \$1.50 is charged for use of books and pamphlets in the Industrial Relations Library.

44. The State in Relation to Labor. Second term. Credit three hours. Consult the instructor before registering. Professor SLICHTER. M W F 9. Goldwin Smith 264.

An examination of the efforts of the State to assist in the solution of the labor problem. Conciliation, arbitration, industrial courts, the legal minimum wage, workmen's compensation, labor exchanges, social insurance, administrative machinery and problems.

46. Union Shop Rules and Policies. Second term. Credit three hours. Consult the instructor before registering. Professor SLICHTER. Hours to be arranged.

An intensive study of the shop rules and policies of trade unions in different industries with special emphasis upon the conditions giving rise to specific rules and policies and the effects upon unions and upon production.

47. Collective Bargaining. Second term. Credit three hours. Consult the instructor before registering. Professor SLICHTER. Hours to be arranged.

The evolution of trade agreements and the experience under representative trade agreements will be studied in some detail.

49. Research in Industrial Relations. Throughout the year. Credit two hours a term. Consult the instructor before registering. Professor SLICHTER. Hours to be arranged.

Discussions and individual investigations of current and theoretical problems in the field of industrial relations.

The attention of students is called to the following work: Elementary Social Science, Constitutional History of the United States, Political Institutions, The American Federal System, Fundamental Rights and Immunities, Social and Political Ethics, Constitutional Law, Law of Restraints on Business and Industry.

STATISTICS

76a. Population Statistics. First term. Credit three hours. Open only to those who have taken Economics 50b or are majoring in Economics. Professor WILLCOX. M W F 11. Goldwin Smith 256.

An introduction to the statistics of the population of the United States and of New York State based mainly upon the federal census and the New York State registration statistics. The course gives an introduction to the methods and results of statistics in this its best developed branch.

76b. Economic Statistics. Second term. Credit three hours. Prerequisite, Economics 76a. Students majoring in Economics who have not had course 76a or its equivalent may be admitted by special permission. Professor WILLCOX. M W F 11. Goldwin Smith 256.

A continuation of course 76a, dealing mainly with the agricultural, industrial, and commercial statistics of the United States. The course is an introduction to statistics in its application to more difficult fields, such as production, wages, prices, and index numbers.

79a. History and Statistics of International Migrations. First term. Credit two hours. Open to those who are majoring in Economics. Professor WILLCOX. T 4-6. Goldwin Smith 259.

The Statistics of international migrations from and into the leading countries of the world since the beginning of the records about a century ago will be studied.

79b. **American Racial Problems.** Second term. Credit two hours. Open to those who are majoring in Economics. Professor WILLCOX. T 4-6. Goldwin Smith 259.

The increase and redistribution of races over the earth since 1500 A. D. and the problems growing out of present race relations in the United States.

ECONOMIC THEORY

81. **Economics of Enterprise.** First term. Credit three hours. Primarily for seniors majoring in Economics. Professor HOMAN. T Th S 10. Goldwin Smith 264.

An analytical treatment of the theory of prices and incomes.

83. **The Rise of Modern Capitalism.** First term. Credit three hours. Prerequisite, Economics I or its equivalent. Professor HOMAN. T Th S 11. Goldwin Smith 256.

A survey of the growth of economic institutions and ideas from the end of the Middle Ages to the nineteenth century.

86. **History of Economic Thought.** First term. Credit two hours. Primarily for graduate students. Professor HOMAN. Hours to be arranged.

An inquiry into the development of economic ideas and methods of analysis, as related to the changing intellectual and institutional content of western civilization.

INFORMAL STUDY AND HONORS IN ECONOMICS

The direction of informal study in economics, and the assistance of candidates for the degree with honors in economics is in charge of Professor ENGLISH.

DEPARTMENT OF AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

(College of Agriculture)

FARM MANAGEMENT

101. **Farm Records and Accounts.** First term. Credit three hours. Lectures, T Th S. Caldwell 100. Laboratory M 1:40-4. Marketing Building, or T 1:40-4. Marketing Building. Assistant Professor HARRIOTT.

Farm inventories; cash accounts; income tax reports; single enterprise cost accounts; complete farm cost accounts; farm maps; other farm records. Interpretation of the results on cost accounts and their application in the organization and management of farms. Fee for materials furnished, \$3.

102. **Farm Management.** Second term. Credit five hours. It is desirable that this course should be preceded by course 101 and by as many as possible of the courses dealing with the production of crops and of animals. Lectures, M W F 10. Farm Management Building 102. One laboratory period a week, by assignment. Farm Management Building 102. On days when farms are visited, laboratory work may last longer than two and one-half hours. Professor MYERS.

Farming as a business; types of farming; balance of business; size of business; rates of production; farm layout; building arrangement; labor management; machinery; marketing; ways of starting to farm; forms of tenure and leases; choosing and buying a farm; use of capital and credit; planning, organization, and management of specific farms. Four half-day field trips will be taken during April and May in order to visit farms in near-by regions. Fee for materials furnished, \$3.

103. **Business Organization and Management of Successful New York Farms.** First term. Credit three hours. Prerequisite, permission to register. F 1:40-4, S 8-1. Farm Management Building 102. Two or three two-day trips will be taken in October or early November, on the regular class days. On days when out-of-

town trips are taken, the class will usually leave before 1:40 P.M., and will not return until evening. Expenses for trips are estimated to be about \$25. Professor SCOVILLE.

201. The Appraisal of Farm Land. First term. Credit one hour. W, 1:40-4. Farm Management Building 102. Professors WARREN and HILL.

A study of factors governing the price of land; and the appraisal of land for use, for sale, for purposes of making loans, and for taxation.

202. Research Methods in Farm Management. First term. Credit one hour. W 12. Farm Management Building 102. Professor WARREN.

Attention will be given to the more important methods of determining the principles of farm management and the preparation of results for publication.

203. Research Methods in Farm Management. Second term. Credit two hours. T Th 11-12:50, Marketing Building. Professor MISNER.

This course is designed primarily for students who expect to engage in farm management research. Much of the time will be devoted to the preparation and use of forms for the collection of data by the survey method. During the Spring vacation several days will be spent taking farm management survey records. Experience will also be given in the tabulation and study of such data in preparing the results for publication.

299. Seminary. First and second terms. M 4:10-5:15. Farm Management Building 102. Departmental staff.

AGRICULTURAL PRICES AND STATISTICS

111. Agricultural Statistics. First term. Credit three hours. Lecture, M 8. East Roberts 222. Laboratory M 1:40-4. Farm Management Building 102. Professor PEARSON.

A study of the principles involved in the collection, tabulation, and interpretation of agricultural and marketing statistics. Actual analysis of statistical problems with an 80-column tabulating machine. This course is designed primarily for students who expect to pursue commercial work. Fee for materials furnished, \$3.

112. Agricultural Statistics, Advanced Course. Second term. Credit three hours. Prerequisite, course 111. Lecture M 8. East Roberts 222. Laboratory, M 1:40-4. Farm Management Building 102. Professor PEARSON.

A study of the application of probable error, sampling, gross, partial, and multiple correlation, curve fitting to problems in this field. Methods of using 80-column tabulating equipment for multiple correlation analysis.

This course is a continuation of course 111 and is intended primarily for students who expect to do research work. Fee for materials furnished, \$3.

113. Theory of Statistics. First term. Credit two hours. Lecture, Th 8. Laboratory, Th 1:40-4. Marketing Building. Mr. PRETORIUS.

Binomial, Poisson, and Lexis series; normal curve; bivariate normal surface; tetrachoric correlation; standard error of the common statistical measures; multiple correlation. Fee for materials furnished, \$2.

114. Theory of Statistics, Advanced Course. Second term. Credit two hours. Lecture W 8. Laboratory, Th 1:40-4. Marketing Building. Mr. PRETORIUS.

Curve fitting; skew frequency curves; various methods of measuring relationships between variables; sampling. Fee for materials furnished, \$2.

115. Agricultural Prices. Second term. Credit three hours. Lectures, T Th 8. Laboratory, W 1:40-4. Farm Management Building 102. Professor PEARSON.

A study of prices of farm products in relation to agricultural and industrial conditions. Fee for materials furnished, \$3.

Attention is called to Mathematics 83, Probability and Statistics, and Mathematics 90, Mathematical Economics.

Students intending to specialize in Farm Management and Agricultural Economics, who desire to take Analytical Geometry and Calculus, should register

for Mathematics 4a at 11 o'clock, with Professor Roos. This section is designed for students specializing in Business Economics, Statistics, Prices, Farm Management, and Agricultural Economics.

MARKETING

121. Accounting. First term. Credit three hours. Should be preceded or accompanied by Economics 1. Lectures, T Th 9. Farm Management Building 102. Laboratory, T or Th 1:40-4. East Roberts 232. Assistant Professor CATHERWOOD.

The fundamentals of the double-entry system; the theory of debit and credit; the common books of original and final entry; the analysis and recording of ordinary business transactions; the trial balance; closing the books; preparation of work sheet and financial statements. The principles are developed mainly in terms of the simple trading enterprise. Fee for materials furnished, \$1.

122. Accounting. Second term. Credit three hours. Prerequisite, course 121. Lectures, T Th 9. Farm Management Building 102. Laboratory, T or Th 1:40-4. East Roberts 232. Professor POWELL.

A continuation of course 121. Accounting for different types of business organizations; the partnership, the corporation, the cooperative association; the application of accounting principles to some of the principal types of agricultural business; problems of valuation and income determination; the fundamentals of cost accounting; the use of accounts by the management of the business, with special reference to the analysis and interpretation of financial statements. Fee for materials furnished, \$1.

125. Business Organization and Management. First term. Credit three hours. Prerequisite, Economics 1. Should preferably be preceded or accompanied by course 121. Lectures, M W F 10. Farm Management Building 102. Assistant Professor CATHERWOOD.

A general survey of the principles of organization and management of the individual business enterprise, with particular reference to agricultural business. Specific problems and cases taken from various types of business are used to develop and illustrate the principles of organization, financing, production, purchasing and personnel control. Problems of distribution are considered in course 126. Special attention is given to methods of analysis of business problems. Fee for materials furnished, \$2.

[126. **Sales Management.** Second term. Credit three hours. Prerequisite Economics 1. Should preferably be preceded by course 125. Lectures, M W F 9. Farm Management Building 102.] Not given in 1930-31.

A study of the marketing problems of the individual business enterprise with particular reference to agricultural business. Problems considered will relate to selection of methods of distribution, the organization and management of sales force, salesmanship, price policies, credit policies, sales research and planning, market analysis and advertising. Fee for materials furnished, \$2.

131. Cooperative Marketing. First term. Credit three hours. Lectures, T Th 11. Farm Management Building 102. Laboratory, T 1:40-4. Farm Management Building 102. Professors MYERS and POWELL.

Business management of cooperative organizations. The cooperative corporation; legal basis of cooperative business; types of cooperative organizations; contracts; relations to members. Primary consideration will be given to a study of some of the important factors affecting the efficiency of cooperative business, including volume of business, financing, price, policies, and capital efficiency. Fee for materials furnished, \$2.

232. Collective Bargaining. Second term. Credit two hours. Lectures, T Th 8. Farm Management Building. Professor BOYLE.

Collective bargaining and its use by labor, capital and agriculture. The policy of collective bargaining. A study in price determination.

141. Marketing. First term. Credit four hours. Prerequisite, Economics 1. Lectures, M W F 8. Farm Management Building 102. Discussion groups one hour a week. Professor BOYLE.

A study of the present organization, functions, and operation of the market structure, with particular reference to agriculture. Cooperative marketing is included. Fee for materials furnished, \$2.

142. Marketing (Fruits and Vegetables). First term. Credit three hours. Lectures, M W 9. Farm Management Building 102. Laboratory, W 1:40-4. Marketing Building. Professor RASMUSSEN.

A study of the economic factors involved in the marketing of fruits and vegetables. Regional and seasonal competition; areas of distribution; methods of handling; costs of marketing; types of marketing organizations; sales methods; transportation and carrier services; produce law and methods of credit rating; terminal problems. Fee for materials furnished, \$2.

143. Marketing (Dairy Products). Second term. Credit three hours. Lectures, T Th 10. Laboratory, T 1:40-4. Marketing Building. Professor SPENCER.

Economic aspects of the distribution of the more important dairy products from producer to consumer, with special emphasis on market milk. One all-day trip will be arranged. Fee for materials furnished, \$2.

144. Agricultural Business (By non-resident lecturers). First term. Credit one or two hours. Lecture and discussion, F 11-1. Farm Management Building 102. Professor SPENCER in charge.

Most of the lectures are given by executives of private or cooperative business organizations engaged in the distribution of farm products or farm supplies.

A discussion period at 12 o'clock affords an opportunity for informal discussion of questions related to the subject of the preceding lecture. Two hours credit is allowed those who take this period in addition to the lecture.

145. Business Law. First term. Credit two hours. Lectures, T Th 12. Farm Management Building 102. Lectures by Mr. ALLAN TREMAN. Registration in charge of Professor SPENCER.

Consideration is given chiefly to legal problems of particular interest to persons who expect to engage in business; including contracts, liens, mortgages, and negotiable instruments; ownership and leasing of property; wills; estates; inheritance taxation; and other practical problems.

146. The Organized Exchanges and Speculation. First term. Credit two hours. Recitations, T Th 8. Farm Management 102. Professor BOYLE.

RURAL ECONOMY

250. Taxation. Second term. Credit three hours. Lectures, M W F 11. Farm Management 102. Assistant Professor KENDRICK.

The emphasis of the course is on state and local problems connected with rural taxation. Among the subjects considered are: the growth of expenditures; the rise of modern tax problems; how various governmental divisions in New York and other States get their tax revenues; the general-property tax and its administration, and the special cases of personal property, farm, and forest taxation; mortgage taxes, taxation of cooperatives; income, inheritance, gasoline taxes, and the like; proposals for tax reform; problem of a proper distribution of the tax burden among the various state and local governmental units. Fee for materials furnished, \$2.

151. Public Problems of Agriculture. Second term. Credit two hours. Lectures, M W 12. Farm Management Building 102. Professor WARREN.

A discussion of some of the more important problems of agriculture that involve collective or government action.

152. Agricultural Policies of Foreign Countries. Second term. Credit two hours. Lectures, T Th 11. Farm Management Building 102. Dr. R. M. CAMPBELL.

A study of the tenure of land; land-taxation systems; cooperative organizations; tariff policies; producers commodity-control boards; and other questions involving relations between the State and the farmer in various countries.

161. Agricultural Economics. Second term. Credit four hours. Prerequisite, Economics 1. Lectures, M W F 8. Farm Management Building 102. Discussion groups one hour a week. Professor BOYLE.

A discussion of the major problems in the field of agricultural economics. A statement of these problems and the various resolutions proposed.

262. Rural Economy (Elementary Course). First term. Credit three hours. Prerequisite, an introductory course in economics. Lectures, M W F 9, and individual conferences. Fernow 210. Professor LAUMAN.

A study of the factors underlying the present conditions in rural communities at home and abroad, and of forces at work in shaping the agriculture of the world, chiefly along economic lines.

263. Rural Economy (Advanced Course). Second term. Credit four hours. Prerequisite, Course 262 or its equivalent. Lectures, M W F 9. Fernow 210. Professor LAUMAN.

A more extended study, primarily theoretical, of the general economic problems of agriculture.

269. Rural Economy Seminary. First and second terms. T 2:30. Fernow 126. Professor LAUMAN.

The year will be devoted to a study of the "Agrarpolitik" of F. Aereboe.

HISTORY OF AGRICULTURE

171. History of Agriculture. First term. Credit three hours. Lectures, M W F 11. Fernow 210. Professor LAUMAN.

The important phases of the development of agriculture are considered historically. Special stress is laid on the rise of the agricultural classes, on the beginnings of rational agriculture and on modern agrarian problems.

172. History of Agriculture in the United States. Second term. Credit three hours. Lectures, M W F 11. Fernow 210. Professor LAUMAN.

This course deals with the land, its settlement, and its settlers in their economic, social, and political aspects; the technical development of agriculture; the beginnings of permanent agriculture; the rise of marketing problems and of the agrarian movements.

278. Research in Rural Economy or History of Agriculture. First and second terms. Credit two or three hours a term. Fernow 126. Professor LAUMAN.

279. Agricultural History Seminary. First and second terms. Th 2:30. Fernow 126. Professor LAUMAN.

The year will be devoted to a general survey of legislation for agriculture in the United States.

DEPARTMENT OF HOUSEHOLD MANAGEMENT

(College of Home Economics)

ECONOMICS OF THE HOUSEHOLD

6. Introduction to the Study of Family and Home Problems. Second term. Credit one hour. For freshmen. Lectures, F 10. Room 245. Professor MONROE.

A consideration of families of this country, their number, size, where they live, their probable levels of living, and something as to their homes. The aim of this course is to furnish background for a study of home economics, and better understanding of the problems of homemakers by broadening the knowledge of students concerning the ways in which families are living. Fee for materials, \$1.

26. The Household Buyer and the Market. First term. Credit two hours. Primarily for sophomores. Limited to 35 students. Lectures, M W 8. Room 100. Professor MONROE.

A study of problems facing the household buyer in the modern market. The organization of the marketing system, the different types of retail agencies, the legal protection of the buyer, the services of the market, and the needs for its improvement from the consumer's standpoint will be discussed. Fee for materials, \$2.50.

130. Family Income and Expenditure. First or second term. Credit two hours. Open to juniors and seniors. Lectures, T Th 9. Room 245. Professor CANON.

A study of family incomes and expenditures in relation to the national income, to private and public enterprise, and to the economic and social life of the family. Fee for materials, \$2.50.

250. Economic Problems of the Household. Throughout the year. Credit two hours a term. Hours to be arranged. Primarily for graduate students. First term, Professor MONROE; second term, Professor CANON.

A study of problems in the field of economics of the household, including those of income and expenditure, production, and consumption. Attention will be given to defining problems and reviewing information available concerning them.

260. The Marketing System and the Consumer. Second term. Credit three hours. Primarily for graduate students. Hours to be arranged. Professor MONROE.

This course includes an analysis of the structure of markets and a study of market functions and functionaries from the standpoint of their relation to the household. An attempt will be made to give the student a basis for evaluating the present-day market as a means of meeting the needs and desires of consumers. The effects of the market upon consumption and of consumer demand and attitudes upon the market will be considered as will also the problem of social control or regulation of markets in the interests of consumers.

SOCIOLOGY

I. Department of Economics (College of Arts and Sciences)

50a. Introduction to Sociology. First term. Credit three hours. Assistant Professor WOODWARD. T Th 9 and an hour to be arranged. Goldwin Smith 142.

A study of racial and cultural origins and of the factors determining organic evolution and cultural development.

50b. Introduction to Sociology. Second term. Credit three hours. Prerequisite, Economics 50a. Assistant Professor WOODWARD. T Th 9 and an hour to be arranged. Goldwin Smith 142.

The social development of human personality; the behavior of crowds; social control and social progress.

51. Social Problems. First term. Credit three hours. Prerequisite, Economics 50b. Consult instructor before registering. Assistant Professor WOODWARD. T Th S 11. Goldwin Smith 264.

A continuation of course 50b applying progress criteria there developed to such social problems as those of population numbers and quality, immigration, racial and cultural adjustment, juvenile delinquency and crime, poverty and dependency.

54. The Family. Second term. Credit three hours. Prerequisite, Economics 50b and the consent of the instructor. Assistant Professor WOODWARD. T Th S 11. Goldwin Smith 264.

The historical backgrounds of the modern American family; current disorganization of the American family as a social problem; the problem of individual adjustment to current family mores. Group reports will form the basis of class discussion.

Enrollment limited to twenty-five students.

II. Department of Rural Social Organization (New York State College of Agriculture)

1. Introduction to Sociology. Second term. Credit three hours. Open to sophomores. Lectures and discussions. T Th S 8. Roberts 292. Mr. PAXSON.

This course precedes all others in the department. Its object is to create an understanding of institutions, organizations and various types of groups that exist in human society; it is an analysis of the human environment in which the individual lives. Both urban and rural society are considered.

12. Rural Sociology. Second term. Credit three hours. Open to sophomores. Prerequisite, course 1 or its equivalent, or special permission. T Th S 11. Roberts 292. Mr. PAXSON.

Primarily for students whose homes are in rural communities. A study of the groups, institutions, and organizations found in rural society. The structure and functions of rural groups are first analyzed, and attention is then given to the processes of group action and the results. Lectures, discussions, special class reports, and special papers.

[111. Rural Community Organization. Second term. Credit two hours. Prerequisite, either course 1 or 12, or the equivalent. Lectures and discussions, M 2-4. Roberts 92. Professor SANDERSON.] Not given in 1930-31.

A consideration of the aims and methods of the organization of rural communities. Typical communities are studied, their problems are analyzed, and a method of organization is discussed. The county as a unit of social organization will also be considered in its relation to community organization.

121. The Family. First term. Credit four hours. Open to juniors, seniors, and graduate students. Prerequisite, course 1 or its equivalent. Lectures, discussions, group conferences, and reports. T Th S 11 and one-hour group conference to be arranged. Roberts 292. Professor SANDERSON.

This course considers the social problems of the family both on the farm and in the city; the history of the family, particularly during the past century; the differences between family life in the country and in the city; the function of the family in society; marriage and divorce; relations of parents and children; and how the family may be conserved. Fee for materials, \$3.50.

123. Field Work in Rural Society. Throughout the year. Open only to advanced students by special permission. All work is individual. Hours and credit to be arranged. Professor SANDERSON.

[132. Rural Leadership. Second term. Credit two hours. Prerequisite, permission to register. W 2-4. Roberts 92.] Not given in 1930-31.

A seminary course in which a descriptive account of leadership is given from a psychological point of view. General principles are discussed with special case references to studies of rural leaders in New York and other states.

211. The Rural Community. First term. Credit two hours. A seminary course primarily for graduate students. Prerequisite, courses 1 and 12 or their equivalents. W 2-4. Roberts 92. Professor SANDERSON.

A study of the historical development of the rural community; a comparative study of types of rural communities; the rural community as a sociological group and its place in society; and methods of community development and organization.

[212. The Village. Second term. Credit three hours. Prerequisite, permission to register. Lecture T and reports Th 2-4. Roberts 92. Acting Professor MELVIN.] Not given in 1930-31.

This course considers the structure and function of the village, including its historical development in the United States. The relations of the village to the city, to the town, and to the farm are analyzed. Emphasis is also placed on the social organization of the village as it relates to the community.

213. Research in Rural Social Organization. Throughout the year. For graduate students only. Hours and credits to be arranged. Professor SANDERSON.

214. Seminary. First term. Credit three hours. For graduate students. T Th 2-4. Roberts 92. Professor SANDERSON.

The seminary will study the structural characteristics and classification of different types of social groups as related to their functions.

[216. Systematic Sociology. Second term. Credit two hours. For graduate students. W F 4. Roberts 92. Acting Professor MELVIN.] Not given in 1930-31.

This is a seminary course designed to present in a systematic way the whole field of sociology with special emphasis on sociological theory. The work is divided between lectures giving the essential aspects of the subject and reports on special topics.

[221. Sociological Theory. First term. Credit three hours. Prerequisite, permission to register. T Th 2-4. Roberts 92. Professor SANDERSON.] Not given in 1930-31.

A seminary course devoted to the critical analysis of recent and contemporary sociological theory.

III. Department of Family Life (College of Home Economics)

111. The Family. First term. Credit two hours. For seniors, and others by permission. T Th 10. Room 100. Professor VAN RENSSLAER.

This course embraces a study of modern social and economic problems of the family. It treats of survivals of various characteristics governing family life; the work of women and their industrial and economic conditions are studied with reference to the home and to society.

RELATED COURSES IN OTHER DEPARTMENTS

College of Arts and Sciences

(See announcement of the College of Arts and Sciences for detailed description.)

DEPARTMENT OF GEOLOGY

206. Commercial Geography. First term. Credit two hours. Prerequisite, Geology 200 or Economics 1. Mr. BROWN. Lectures, T Th 11. McGraw, Geology Lecture Room.

500. General Economic Geology. Throughout the year. Credit three hours a term. Prerequisite, first term, Geology 100; second term, 100 and 311. Professor RIES and Mr. TUCK. Lectures, M W 10. Laboratory, F 1:40. McGraw.

511. Advanced or Special Work in Economic Geology. Throughout the year. Credit variable. Prerequisite, dependent on the nature of the work. Open to seniors only by special permission. Professor RIES. Day and hour to be arranged. McGraw.

512. Seminary in Economic Geology. Throughout the year. Credit two hours a term. Prerequisite, Geology 100 and 500. Professor RIES. Day and hour to be arranged. McGraw.

Open only to graduates.

DEPARTMENT OF GOVERNMENT

1. American Government. Throughout the year. Credit three hours a term. First term is prerequisite to second. Open to sophomores, juniors, and seniors, and to a limited number of freshmen, particularly those planning to study law. Professor CUSHMAN. Lectures, T Th 9. Quiz hours to be arranged. Goldwin Smith A.

2. Comparative Government. First term. Credit three hours. Open to sophomores. Mr. SHIPMAN. Lectures, M W F 10. Goldwin Smith 242.

8. History of Political Thought. Second term. Credit three hours. Open to sophomores. Professor CATLIN. M W F 10. Goldwin Smith 177.

9. **Introduction to International Relations.** First term. Credit three hours. Open to sophomores. Assistant Professor BRIGGS. M W F 9. Goldwin Smith 227.

10. **Political Philosophy and Science.** Second term. Credit three hours. Open to qualified upperclassmen. Consult the instructor before registering. Professor CATLIN. F 2 and other hours to be arranged. Goldwin Smith 227.

11. **Political Institutions.** Second term. Credit three hours. Professor CATLIN. M W F 11. Goldwin Smith 120.

14. **Introduction to International Law.** First term. Credit three hours. Open to upperclassmen. Assistant Professor BRIGGS. M W F 12. Goldwin Smith 142.

15. **Development of International Organization.** Second term. Credit three hours. Open to upperclassmen. Professor WILLIAMS. M W F 12. Goldwin Smith 142.

16. **Contemporary American Foreign Policy.** Second term. Credit three hours. Open to upperclassmen. Assistant Professor BRIGGS. M W F 9. Goldwin Smith 227.

20. **Constitutional Law: The American Federal System.** First term. Credit three hours. Open to upperclassmen. Professor CUSHMAN. T Th S 11. Goldwin Smith 234.

Government 20 and 21 are not designed primarily for pre-law students, but for those having a major interest in government, history, and economics.

21. **Constitutional Law: Fundamental Rights and Immunities.** Second term. Credit three hours. Open to upperclassmen. Professor CUSHMAN. T Th S 11. Goldwin Smith 234.

22. **Seminary in Constitutional Problems.** Throughout the year. Credit two hours a term. Open to graduate students and qualified seniors. Professor CUSHMAN. Day and hour to be arranged.

23. **Seminary in Politics.** Second term. Credit two hours a term. Open to graduate students and qualified seniors. Assistant Professor CATLIN. Day and hour to be arranged.

24. **Seminary in International Law and International Organization.** Throughout the year. Credit two hours a term. Open to graduate students and qualified seniors. Assistant Professor BRIGGS. Hours to be arranged.

DEPARTMENT OF HISTORY

84. **Economic History of the United States to 1837.** First term. Credit three hours. Prerequisite, History 1, 61, 82, or 83, or Economics 1 or 2. Professor HULL. M W F 9. Goldwin Smith 234.

85. **Economic History of the United States since 1837.** Second term. Credit three hours. Prerequisite, History 84 or an accepted equivalent. Professor HULL. M W F 9. Goldwin Smith 234.

88. **Foreign Relations of the United States.** First term. Credit three hours. Prerequisite, courses 82 and 83. Professor HULL. M W F 12. Goldwin Smith 234.

89. **American History, 1750-1848: The Settlement of the Middle West.** First term. Credit two hours. Prerequisite, History 82, 83 or the equivalent. Upperclassmen only. Professor BRETZ. T Th 9. Goldwin Smith 234.

DEPARTMENT OF MATHEMATICS

2f. **Introduction to the Mathematics of Finance.** First and second terms. Credit three hours. T Th S 9.

83. **Probability and Statistics.** First term. Credit three hours. Prerequisite, Mathematics 4b or the equivalent. Assistant Professor ROOS. T Th S 10. White 9.

Theory of probability with applications to insurance and statistics. Correlation, curve fitting, sampling, and the theory of errors.

90. **Mathematical Economics.** Second term. Credit three hours. Prerequisite, Mathematics 4b or the equivalent. Courses in economic theory would be desirable although not necessary. Assistant Professor ROOS. T Th S 10. White 9.

Problems of monopoly, competition and cooperation. Taxation, tariff and rent. Rates of exchange. Theory of interest and the equation of exchange. Utility and Marginal Utility. The theory of Production. Some problems in economic dynamics.

DEPARTMENT OF PSYCHOLOGY

10. **Social Psychology.** Second term. Credit three hours. Prerequisite, senior standing; consent of the instructor. Professor BENTLEY. M W F 10. Goldwin Smith B.

Law School

(See Announcement of the Law School for detailed description of courses.)

1. **Contract.** First term. Three hours. Second term. Three hours. Huffcut and Woodruff's "Cases on Contract" (4th ed.). Professor THOMPSON.

25. **Domestic Relations and the Law of Persons.** First term. Two hours. Elective. Woodruff's "Cases on Domestic Relations and the Law of Persons" (3rd ed.). Professor EDGERTON.

30. **Mortgages.** First term. Two hours. Elective. Durfee's "Cases on Mortgages." Professor LAUBE.

32a. **Partnership.** First term. Two hours. Elective. Professor FARNHAM.

32b. **Private Corporations.** First term. Four hours. Elective to third year students. Richard's "Cases on Corporations" (2d. ed.). Professor STEVENS.

34. **Law of Public Service and Carriers.** Second term. Three hours. Elective. C. K. Burdick's "Cases on Public Service and Carriers" (2d. ed.). Professor EDGERTON.

39. **Trusts.** Second term. Four hours. Elective. Scott's "Cases on Trusts." Assistant Professor McDONALD.

48. **Competition and Combination.** First term. Two hours. Professor EDGERTON.

College of Agriculture

(See the Announcement of the College of Agriculture for detailed description.)

DEPARTMENT OF EXTENSION TEACHING

103. **Extension Organization, Administration and Policy.** Second term. Credit 2 hours. Professor WHEELER and Mr. SIMONS.

15. **Agricultural Journalism.** First term. Credit 3 hours. Professor ADAMS.

119. **The Country Newspaper.** First term. Credit 2 hours. Professor ADAMS.

120. **Agricultural Information.** Second term. Credit 2 hours. Professor ADAMS.

DEPARTMENT OF PLANT BREEDING

101. **Genetics.** First term. Credit 4 hours. Assistant Professor FRASER.

DEPARTMENT OF RURAL EDUCATION

111. **Psychology for Students of Education.** First or second term. Credit 4 hours. For juniors and seniors.

211a. **Psychology for Students of Education.** First term. Credit 4 hours. Professor KRUSE. For mature students with teaching experience.

218. **Seminary in Educational Psychology.** Second term. Credit 2 hours. Professor KRUSE. (Not given in 1930-31).

181. **Principles of Education.** Second term. Credit 3 hours. Professor MOORE.
194. **Education and Vocations.** First term. Credit 3 hours. Professor EATON.
222. **Principles of Method.** Second term. Credit 2 hours. Professor STEWART.
(Not given in 1930-31).
239. **Problems of Extension Teaching.** First term. Credit 3 hours. Professor EATON.
240. **Seminary on Problems of Extension Work.** Second term. Credit 2 hours. Professor EATON.
251. **Mental and Educational Measurements.** Second term. Credit 3 hours. Assistant Professor BAYNE.
294. **Philosophy of Education.** Second term. Credit 3 hours. Professor EATON.

College of Home Economics

(See Announcement of College of Home Economics for detailed description.)

FAMILY LIFE

101. **Principles in Child Guidance, Elementary Course.** First or second term. Credit 3 hours. Professor WARING.
205. **Principles in Child Guidance, Advanced Course.** First term. Credit 3 hours. Professor WARING.

RESEARCH WORK

Those who wish to pursue graduate study in Economics or Sociology and to do research work in these subjects may be interested to know of the research work being carried on at Cornell University, for it is by association with others in similar lines of research that the best methods are learned and a comradeship in research is developed. The following memoranda are given, therefore, to show the type of work recently completed or now under way:

In the New York State Colleges of Agriculture and Home Economics research work is supported by state and federal appropriations administered by the Cornell University Agricultural Experiment Station, which publishes the results in its series of bulletins and monographs. This governmentally supported research work is carried on both by members of the staff and by graduate students.

The research work of the department of Agricultural Economics and Farm Management includes cost accounting; farm management of dairy farms, poultry farms, and fruit farms; taxation; cooperative marketing; marketing of milk, fruit, and vegetables; land economics; history of agriculture; public problems related to agriculture; agricultural policies of foreign countries; statistics; prices; and regulation of grain trade.

The principal subjects now being studied by the Department of Rural Social Organization are rural social and economic areas or the human ecology of rural life, with special reference to the interrelations of the cities and towns to the smaller villages; rural population; the rural family; the sociology of the village with reference to its surrounding area; the psychology of rural leadership.

Research in the economics of the household is directed toward the following problems; the cost of food for families adequately fed, living expenses of farm families, purchasing methods of farm families, gainful occupations for farm women and girls remaining at home, and important factors in the management of households.

Some of the recent research work of graduate students who have completed the requirements for the degree of Doctor of Philosophy and which have been published, or are about to be published, are as follows:

DEPARTMENT OF ECONOMICS

(College of Arts and Sciences)

John H. Patterson. *The Development of Recent Concepts of Money and Credit, and of their Relation to Prices in English Monetary Theory.* 1929.

A critical study of modern English monetary theory with special emphasis on development during and since the World War. 1929.

Paul M. O'Leary, *The Western Pacific and Rio Grande Reorganizations.* 1929.

A study of the financial relations prevailing among the members of the Western half of the "Gould System" of railroads during the period 1900-1925.

Elmer Pendell. Demands and Supplies in Wage Determination. 1929.

A theoretical analysis of the various factors affecting the demand for the supply of labor. A study in wage determination.

Raymond H. Lounsbury. Cyclical Fluctuations in Industrial Output 1921-1927. 1929.

An attempt to show why the factors and agents of production which are available for industrial uses are less fully employed at one time than they are at another; why there are constructions and expansions in industrial output.

Frank W. Notestein. An Interpretation of the Vital Statistics of Cattaraugus County for the Years 1916-1924. 1927.

An analysis of the vital statistics of a rural community, Cattaraugus County, New York.

Corwin D. Edwards. The First International Workingmen's Association. 1928. The history of the First International Workingmen's Association.

DEPARTMENT OF AGRICULTURAL ECONOMICS AND FARM MANAGEMENT.

Bucknam, R. F., An Economic Study of Farm Electrification in New York with a Discussion of Rural Electrification in the Provinces of Quebec and Ontario, Canada, Cornell University Agricultural Experiment Station, Bulletin 496, 65 pages, December, 1929.

This study deals with the uses, costs, and possibilities of electricity on New York Farms. The cost of electricity from central-station service and the cost of operating individual farm plants was determined. A comparison was made of the various types of rates in effect in New York State and in the Provinces of Quebec and Ontario, Canada.

Currie, J. R. and Long, W. H., An Agricultural Survey in South Devon, Published by Seale-Hayne Agricultural College, Newton Abbot, Devon and Dartington Hall, Totnes, Devon, England. Report Number 1, 204 pages, August, 1929.

This study represents the analysis of a farm management survey of records for 205 farms in South Devon.

Tennant, J. L., The Relationships between Roads and Agriculture in New York, Cornell University Agricultural Experiment Station, Bulletin 479, 84 pages, May, 1929.

This study is an investigation of the use of roads of different classes by farmers and others; the relationship of road use to road support; the effects of roads on land values and on agricultural production.

Timoshenko, V. P., Wheat prices and the World Wheat Market, Cornell University Agricultural Experiment Station, Memoir 118, 100 pages, December, 1928.

This study represents a statistical analysis of factors determining wheat prices on the world wheat market and on the interior markets of the principal wheat-exporting and wheat-importing countries.

Aside from the world production, the factor of outstanding importance in determining wheat prices was found to be the location of the supply.

Vaughan, L. M., Abandoned Farm Areas in New York, Cornell University Agricultural Experiment Station, Bulletin 490, 285 pages, July, 1929.

This study represents an analysis of farm business records for the occupied farms in 13 areas comprising 154,784 acres of the poorer areas of New York State. Data for abandoned land were also obtained showing the causes of abandonment,

present occupation of owners, and the like. Less detailed data were obtained in 27 additional areas including 392,400 acres.

Vial, E. E., *Prices of Fertilizer Materials, and Factors Affecting the Fertilizer Tonnage*, Cornell University Agricultural Experiment Station, Memoir 119, 159 pages, December, 1928. (This study was made under a fellowship established by the Potash interests.) The study deals with fertilizer materials, their production and prices, and factors affecting fertilizer consumption. Index numbers of the prices of fertilizer materials from 1897 to 1927 were constructed. A method was devised for forecasting annual tonnage of fertilizer sales based on the value per acre of cotton, tobacco, corn, and potatoes, and the fertilizer tonnage of the two preceding years.

Some of the recent research work of the graduate students who are pursuing the degree of Doctor of Philosophy, but which have not yet been published or are not quite complete, are as follows:

Bannerman, John M., *Farm Automobiles 1928-29*.

This inquiry is based on data for 942 New York State farms having automobiles. The distribution of types and makes, annual cost and use of these automobiles, was studied.

Catherwood, M. P., *An Economic Study of the Producing Capacity of the New York Milk Shed* (In cooperation with the New York Central Railroad).

A study of the possibilities of expanding future milk production on 1025 farms in 16 counties in New York and Pennsylvania. General farming sections which may produce fluid milk in the future were included in the survey, as well as different parts of the existing milk shed.

Gans, A. R., *The Adjustment of Vermont Milk Production to Market Demand* (In cooperation with the Vermont Agricultural Experiment Station).

Data obtained from 277 identical Vermont dairy farms show a remarkable increase in the number of young stock being raised as a result of recent high prices for dairy cows.

Harper, F. A., *A Study of Cooperative Agricultural Business in New York State* (In cooperation with the New York State Department of Agriculture and Markets).

This study is an investigation of the present status of cooperative organizations in New York State and the factors involved in the successful operation of co-operative organizations.

Hill, F. F., *A Statistical Study of the Problem of Making Long-Term Mortgage Loans on Farm Property in New York State* (In cooperation with the Federal Land Bank, Springfield, Massachusetts).

Loans made by the Federal Land Bank at Springfield from the time of its organization in 1917 to May 31, 1929, were analyzed to determine the factors affecting foreclosures, such as equity, value of land per acre, roads, distance to market, personal characteristics of operators, and the like.

LaMont, T. E., *A Study of Cost of Production and Other Factors Affecting Profits of Fruit Farms*.

A study of the various factors affecting profits on fruit farms, relationship of soil to prices of land, costs of producing apples, and the like.

Murray, K. A. H., *Some Aspects of the Supply and Prices of Meat in Great Britain*.

A statistical analysis of the interrelationships of supply and price in Great Britain, and of the length and regularity of cyclical production of livestock in various countries throughout the world.

Powell, W., Some Factors Affecting the Costs of Operation of Retail Feed Stores in New York State.

An analysis of financial statements of 83 cooperative and privately owned feed stores in New York State for 1926.

Stoker, H., Interrelations of supply, consumption, and prices of wool (In cooperation with the Institute of Economics and the Bureau of Agricultural Economics, United States Department of Agriculture).

An analysis of the trends and changes in the world wool production, including merino and cross-bred wool production in the important wool producing countries and differentials between different grades of wool in different markets and two other fibers.

Stover, H. J., Changes in the Daily Prices of Hogs on the Movement of Hogs to the Market.

An analysis of the effect of changes in the price of hogs from one day to the next on the number of hogs marketed at Chicago the following three days. The effect is greatest on the third day's receipts. An advance of 40 cents per hundred pounds from Saturday to Monday results in an increase in Thursday's receipts of 48 per cent. Two successive days' price changes in the same direction magnify the effect upon subsequent receipts.

Warren, S. W., An Agricultural Survey of North Livingston County, New York, for the crop years 1908, 1918, and 1928.

The study includes the financial records and history of the farms and of the past and present farm operators, in one community in northern Livingston County. The study is based on 598 records for the 1908 crop year, 697 for 1918, and 514 for 1928.

Weaver, F. P., A Survey of Some Public Markets in Up-State New York.

The study was undertaken to obtain data on the character and volume of business conducted on four public markets, Albany; Elk Street, Buffalo; Rochester, and Syracuse, to determine the areas for which these markets furnish an outlet for farm produce, the areas which they serve as a source of fresh fruits and vegetables, their importance in supplying produce for the city consumers, the various groups that are interested in a public market, and to determine what constitutes a satisfactory market under present day conditions.

The Department of Agricultural Economics publishes a monthly publication, *Farm Economics*, containing a variety of articles by professors, instructors, and graduate students. From September 1927 to June 1929, *Farm Economics* contained 101 signed articles including 283 pages. The distribution was as follows:

<i>Author</i>	<i>Number of articles</i>	<i>Number of printed pages</i>
Graduate students.....	31	76
Professors.....	65	182
Professors and graduate students.....	5	25
Total.....	101	283

DEPARTMENT OF RURAL SOCIAL ORGANIZATION

E. L. Kirkpatrick, *The Standard of Living in a Typical Section of Diversified Farming*. (Bulletin 423 Cornell University Agricultural Experiment Station.) This was the first thorough-going study of the farmer's standard of living in 402 farm homes in Livingston County.

J. A. Dickey, *Living Conditions and Farm Homes in Schoharie County, New York*, was a similar study. A preliminary report was mimeographed by the United States Department of Agriculture and is now being prepared for final publication.

Raymond E. Wakeley, *The Social Areas of Schuyler County, New York*, is a study of the communities in this county and analyzes the concept of the rural community (now being published).

Glenn A. Bakkum, *A Social Study of a Rural Area in Tompkins County, New York*, analyzes the social organization and shows the effect of a small city on an adjoining farming area. Bulletin 501, Cornell University Agricultural Experiment Station, with Dr. B. L. Melvin as co-author.

H. C. Hoffsommer, *The Relation of Cities and Larger Villages to Changes in Rural Trade and Social Areas in Wayne County, New York*, describes the community areas and institutions in one of the better New York counties and shows the effect of the larger towns on the smaller rural communities.

W. A. Anderson, *A Study of Farm Family Living among White Owners and Tenant Operators in Wake County, North Carolina*, is one of the most complete statistical analyses of the various factors in the standard of living in a typical southern county. Bulletin 269 and Technical Bulletin 37 of the North Carolina Agricultural Experiment Station.

R. G. Foster, *Types of Farm Families and Some Effects of 4-H Club Work on their Structure*, is a pioneer study of the Sociology of the family through case studies of 80 farm families.

The following three studies were submitted as theses for the degree of Master of Science:

H. W. Beers, *The Income of Farm Boys*, analyzes the amount and source of income, savings, and property of 302 farm boys in a southern New York dairy section. Being published as a bulletin of the Cornell University Agricultural Experiment Station.

Gladys M. Kensler, *A sociological analysis of the village of Dryden with an historical interpretation*, is a very complete study of social change in a typical rural community of Central New York (Bulletin 504, Cornell University Agricultural Experiment Station, with Dr. B. L. Melvin).

Harold F. Dorn, *The Social and Economic Areas of Yates County, New York*. This is similar to the studies of other counties mentioned above and forms part of a study of several counties in Central New York (Now being edited for publication by the Cornell University Agricultural Experiment Station).

DEPARTMENT OF HOUSEHOLD MANAGEMENT

Research work has been conducted in this department only during the past five years. The following doctoral dissertation is now being submitted for publication.

Canon, Helen, *A Study of the Family Finances of 195 Farm Families in Tompkins County, New York, 1927-28.*

This study was a section of a larger study of the management of family finances, food, and clothing, to determine some of the factors that are important in the management of a household.

The following Masters' theses have been completed and have been printed or are being submitted for publication:

Canon, Helen, *Sizes of Purchasing Centers of New York State Farm Families.* Cornell University Agricultural Experiment Station Bulletin 472. November, 1928.

The purpose of this study was to determine for what articles farm families usually depend on the stores in the neighboring villages, and for what articles they usually go to the larger and more remote cities.

Kritser, Nancy Elizabeth, *Economic Possibilities for the Rural Women and Girls of New York State.* 1927.

The sources of money income of 500 farm women and girls and the opportunities for marketing their products were studied.

Bump, Janet Watson, *A Scale for the Measurement of the Cost of Food for a Family.* 1928.

A scale was developed which was based on the cost of adequate diets typical of the food consumed by 106 farm and village families in central New York, and typical of the food requirements of men, women, and children of various ages and activity.

SUMMER SESSION 1930

ECONOMICS AND SOCIOLOGY

(College of Arts and Sciences)

The following courses are designed to meet the needs of three classes of students in the Summer Session: (1) those desiring regular college credit for general economics; (2) students with special interests in economic subjects; (3) students seeking broad preparation for the teaching of economics in the secondary schools. For the first group, Course S1 covers the subject matter usually included under elementary economics. For Cornell students, Course S1 satisfies the economics requirement in the College of Engineering and will also serve in lieu of Course 1 as a prerequisite for admission to various advanced courses in economics. Graduate students wishing to pursue special investigations will be afforded assistance by other members of the Department of Economics of the University who may be in residence in Ithaca during the summer.

S 1. Modern Economic Society. Credit four hours. Twice daily except Sat., 11 and 12. G S 142. Assistant Professor O'LEARY. A survey of the existing economic order, its more salient and basic characteristics, and its operation.

S 5. Current Economic Problems. Credit two hours. Daily except Sat., 8. G S 264. Assistant Professor MONTGOMERY. A course designed to afford students who have taken an introductory course in Economics the opportunity to become acquainted in a general way with the more important economic problems of the day—tariff problems, reparations problems, railroad problems, trust problems, labor problems, problems of the farmer, conservation problems, and problems of taxation and public finance.

S 13. Corporation and Investment Finance. Credit two hours. Daily except Sat., 9. G S 264. Professor REED.

A study of the financial problems of the business corporation from the point of view of the management and of the investor.

S 15. Trade Fluctuations—Business Forecasts. Credit two hours. Daily except Sat., 11. G S 264. Professor REED.

A study of the causes and effects of trade recessions and revivals. The forecasting methods of some of the more prominent investment services, as well as the course of the stock market, will receive attention.

S 43. Trade Unionism and Labor Problems. Credit two hours. Daily except Sat., 10. G S 264. Assistant Professor MONTGOMERY.

A study of the origins, development, philosophies, aims, and policies of unions, and of the chief problems growing out of the position of the worker in modern economic society.

S 50a. Introduction to Sociology. Credit two hours. Daily except Sat., 9. G S 142. Professor REUTER.

This course is designed to orient the student in the social sciences and to give a working system of thought about society. It includes a consideration of fundamental human nature; the relation of the individual to the group; isolation and social interaction; social forces and social unity; collective behavior; social control through education, religion, and social pressure; and theories of social progress.

S 52. American Race Problems. Credit two hours. Daily except Sat., 10. G S 142. Professor REUTER.

A study of the Negro in America with attention to the basic mental and temperamental traits of the black man; the effect of his contact with the white race; the conflict and accommodation of the races; the increasing intimacy with the white man's civilization; isolation; prejudice, and the growth of racial consciousness; the role of the mulatto; and the evolution of a biracial system of control.

NEW YORK STATE SUMMER SESSION

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

S 102. Farm Management. Credit three hours. Lectures, daily except S., 8. Laboratory, T 1:40-4; S., all day. Farm Management 102. Assistant Professor HARRIOTT.

It is desirable that this course be preceded by courses dealing with the production of crops and animals or that the student have considerable farm experience in crop and animal production.

Lectures, recitation, laboratory practice and field trips. Farming as a business; types of farming; size of business; balance of business; rates of production; farm layout; building arrangement; machinery; buying and selling; ways of starting to farm; forms of tenure and leases; choosing and buying a farm; use of capital and credit; planning, organization and management of specific farms. Field trips to near-by farms will be made on Saturdays. Trips begin at 8 A. M. One two-day trip will probably be arranged. Laboratory fee, \$2.00.

S 111. Agricultural Statistics. Credit three hours. Lectures, daily except Sat., 11. Laboratory M W, 1:40-4. Farm Management 102. Professor VIAL. Classification of data; frequency distributions; means and variables; gross, partial, and multiple correlations; and analysis of time series. Fee for materials furnished, \$3.00.

S 115. Agricultural Prices. Credit one hour. Lectures, daily except Sat., 9. Farm Management 102. Professor VIAL.

Factors affecting farm prices.

S 147. Marketing. Methods and Results of Research. Credit three hours. Lectures and discussions, daily except Sat., 9. Laboratory W F 1:40-4. Marketing Building. Professor SPENCER.

A critical study will be made of research projects in the field of marketing. Special attention will be given to objectives; methods of gathering and analyzing data; results, and costs. Various commodity groups such as dairy products, fruits and vegetables, grain, livestock, cotton, and farm supplies; and various aspects of marketing such as demand and supply, margins and costs, prices, and cooperation will be included among the projects selected for study.

This course may be taken in units of two weeks each, for one hour credit. Subject matter will be arranged as follows: July 7 to 18, dairy products; July 21 to August 1, fruits and vegetables; August 4 to 15, other commodities and cooperative marketing.

S 151 (a) Agricultural Policy in Great Britain. July 7 to July 25, inclusive. Credit one hour. Lectures daily except Sat., 10. Farm Management 102. Professor BRIDGES.

Land tenure; small holdings; the question of land nationalization; marketing; state action with reference to grading, diseases of animals and the like.

S 151 (b) Agricultural Prices and Credit. July 28 to August 15. Credit one hour. Lectures daily except Sat., 10. Farm Management 102. Professor ENFIELD.

Fundamental causes of price fluctuations; effect of monetary changes on British agriculture; proposals for the stabilization of prices; proposed schemes for orderly marketing; agricultural credit with particular reference to British joint stock banks, the British Agricultural Mortgage Corporation; special legislation for financing agricultural improvements, and cooperative credit societies.

S 168. Special Lectures on Economic and Educational Problems. Credit one or two hours. Lectures, M W F 12. Farm Management 102. Discussion period, M W F 4. Farm Management 102.

Credit one hour for those who take the 12 o'clock lectures only. The discussion periods are primarily for graduate students and are more technical. Credit two hours for those who take both periods. The first or second half of the two-hour course may be elected by students of special unit courses for one-hour credit. Professor SPENCER in charge.

A series of discussions by non-resident lecturers intended to give an introduction into the outstanding economic and educational problems affecting rural life.

RURAL SOCIAL ORGANIZATION

S 12. The Sociology of Rural Life. Credit two hours. Lectures and reports, daily except Sat., 9. Roberts 292. Professor ANDERSON.

This course consists (1) of an examination of the sociological structure of rural life which furnishes the basis for (2) the analysis of rural life problems. Some of the problems considered are health, education, religion, standards of life, the family, government, social life and recreation. These problems are considered as a phase of community organization and as such are analyzed in their sociological aspects. Students are expected to draw specific material from their own communities.

S 16. Recreational Leadership. Credit two hours. Daily except Sat., 9. Two additional hours in the afternoon each week are required for practice in leading games. Hours to be arranged. East Roberts 232. Professor FELTON.

The aim of this course is to prepare students for recreational leadership in schools, granges, churches, and other community meetings. The following subjects are considered: the educational value of play; the periods of childhood and their relation to a course of play and games; play as physical training; play for the development of social relations; play for the formation of habits and character; the place of play in the home; the home playroom and playyard; school playgrounds; community playgrounds; recreation in the program of the church; recreational programs for community halls; and play days in rural schools.

S 21. General Sociology. Credit two hours. Students should have junior standing. Lectures and discussions. Daily except Sat., 11. Roberts 292. Professor ANDERSON.

The aims of the course are two; first, to study the structure and function of society; and, second, to give an appreciation of processes and forces which may be directed to wholesome societal development. The social structure, activities, influences, controls, and changes as exemplified in both urban and rural life constitute the subject matter of this study.

S 121. The Family. Credit two hours. Daily, 10. Roberts 292. Professor SANDERSON.

This course considers the social problems of the family both on the farm and in the city; the history of the family, particularly during the past century; the differences between family life in the country and in the city; the function of the family in society; marriage and divorce; relations of parents and children; and how the family may be conserved. Fee for materials, \$1.00.

S 122. Social Problems and Social Welfare Organization. Credit one hour. M W F 11. Caldwell 3. Professor SANDERSON.

A study of such social problems as poverty, delinquency, crime, the physically handicapped, the feeble-minded and mentally diseased, social insurance, health and society, mother's pensions; a consideration of public and private agencies for social work and desirable public policy with regard to the organization and support of such agencies. This course must be accompanied by either Courses 123 or 124, or both of them.

S 123. Special Lectures on Social Problems. Credit one hour. Lectures, T Th 12. Roberts Assembly. Round Table Discussion, T Th 4. East Roberts 232.

A series of lectures and round table discussions by non-resident lecturers on social problems affecting the public welfare, as outlined in Course S 122. The speakers will include some of the heads of state departments and institutions, other leaders in public welfare work, and members of the staff of the State Charities Aid Association.

S 124. Field Trips to State Institutions. Credit one hour. Saturdays all day, leaving at 8. Professor SANDERSON.

These trips are open to those registered in courses 122 or 123, and to others for individual trips by special arrangement, and are designed to give students an opportunity to observe how the State is caring for its maladjusted citizens. Visits will be made by automobile to the State School for Boys at Industry, Willard or Binghamton State Hospitals, the Rome State School for the Feeble-minded, the Elmira Reformatory, the County Home, and the George Junior Republic. Fee \$12.00.

S 211. The Rural Community. Credit one or two hours. For graduate students. Prerequisite, permission of instructor to register.

Personal conferences and individual work, at hours to be arranged. Professor SANDERSON.

A comparative study of types of rural communities and their historical development and a sociological analysis of the modern rural community.

INTERNATIONAL CONFERENCE OF AGRICULTURAL ECONOMISTS

An International Conference of Agricultural Economists is to be held at Cornell University August 18 to 29, 1930.

CORNELL UNIVERSITY OFFICIAL PUBLICATION

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This series of pamphlets is designed to give prospective students and other persons information about Cornell University. No charge is made for the pamphlet unless a price is indicated after its name in the list below. Requests for pamphlets should be addressed to the Secretary of the University at Ithaca. *Money orders should be made payable to CORNELL UNIVERSITY.*

The prospective student should have a copy of the

General Information Number

and a copy of one or more of the following Announcements:

Announcement of the College of Arts and Sciences.

Announcement of the College of Engineering.

Announcement of the Law School.

Announcement of the College of Architecture.

Announcement of the New York State College of Agriculture.

Announcement of the Winter Courses in the College of Agriculture.

Announcement of the New York State College of Home Economics.

Announcement of the Course in Hotel Administration.

Announcement of the New York State Veterinary College.

Announcement of the University Division of Education.

Announcement of the Department of Chemistry.

Announcement of the Graduate School.

Announcement of the Summer Session.

Announcement of the Summer Session of the Law School.

Announcement of the Summer School of Biology.

Announcement of the Farm Study Courses.

Program of the Annual Farm and Home Week.

Annual Report of the President.

Special departmental announcements, a list of prizes, etc.

Other periodicals are these:

The Register, published annually in September, and containing, not announcements of courses, but a comprehensive record of the University's organization and work during the last year. Price, 50 cents.

Guide to the Campus. A book of 132 pages, including 55 illustrations and a map in three colors. Price, 50 cents.

Directory of the University. Price, 10 cents.

The *Announcement of the Medical College* may be obtained by addressing the Cornell University Medical College, Ithaca, New York.

Correspondence regarding the Cornell University Official Publication should be addressed to

THE SECRETARY, CORNELL UNIVERSITY,
ITHACA, NEW YORK.